

ENHANCE

Enhancing Sustainable Travel in Small Cities and Outer Metropolitan Areas

Project Overview

- Research-oriented approach (ROA)
- 15mC Transition Pathway
- Strengthen the mix of urban functions and services

Project keywords

Multi-modal accessibility; Transport inequality; Travel behaviour; Scenario modelling
Land-use planning

Challenges

1. Urban outskirts



- Greater car dependency
- Struggling local retail centers
- Disintegrated housing developments
- Weaker active travel infrastructure

2. Disadvantaged groups



Physical impairments



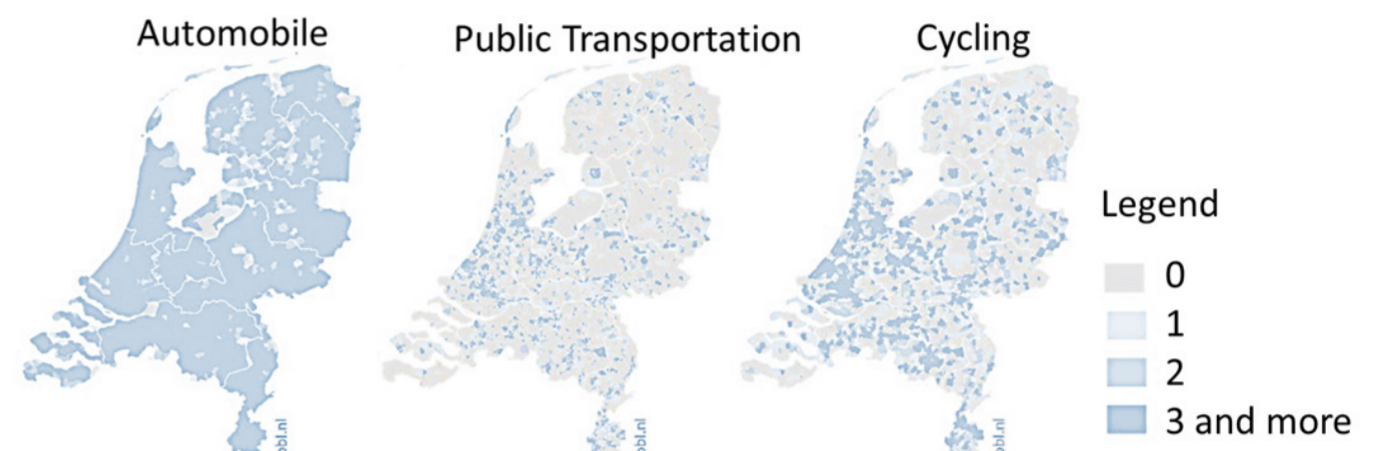
Families with children



Elderly people

Three key approaches

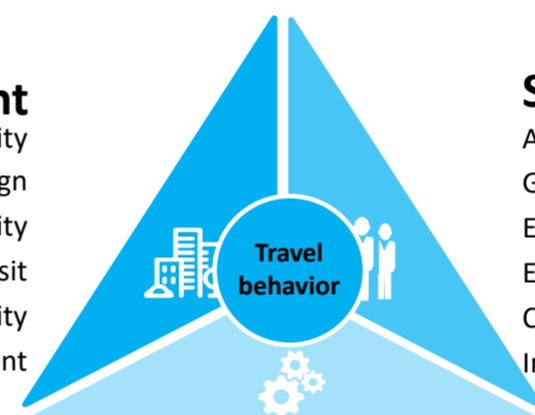
1. Developing 15mC-accessibility indicators



Accessible basic healthcare services via 15 minutes' travel time in the Netherlands

2. Analysing 15mC travel behaviour

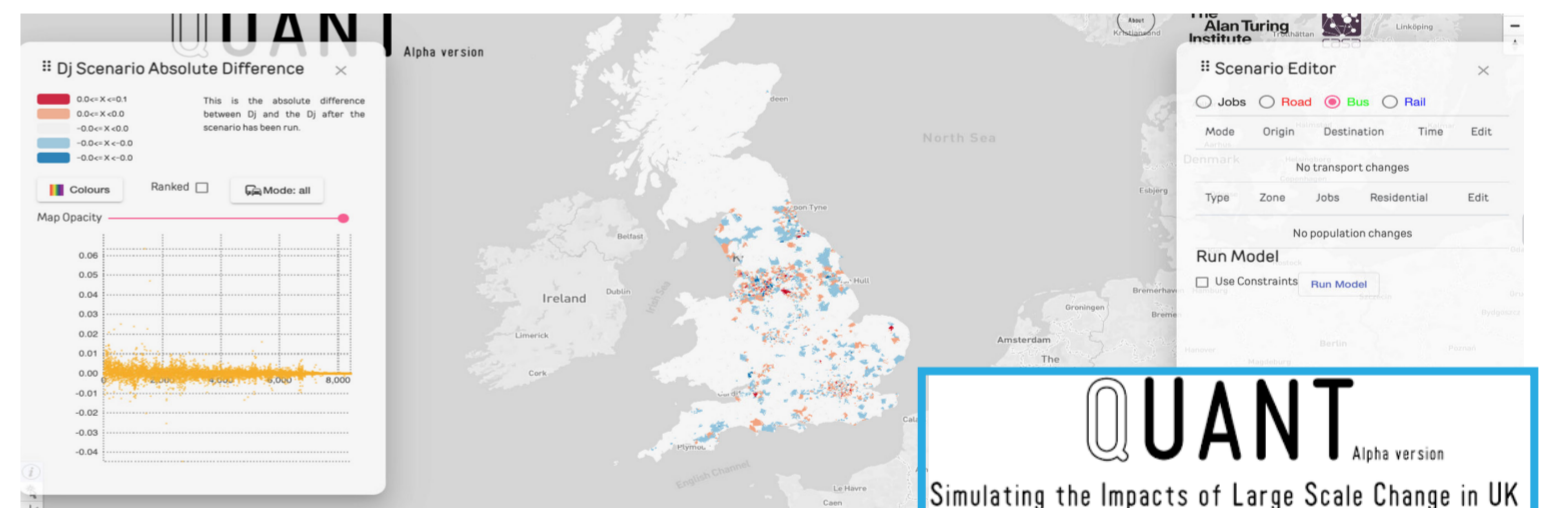
Built Environment
Density
Design
Diversity
Distance to public transit
Destination accessibility
Street environment



Socio-demographics
Age
Gender
Education level
Ethnicity
Car ownership
Income level

Other associated factors
Weather / Temporal index.....

3. Modelling 15mC scenarios



QUANT Alpha version
Simulating the Impacts of Large Scale Change in UK

Case cities



Alkmaar, Netherlands



Bath, UK



Oeiras, Portugal

Project Partners



VRIJE
UNIVERSITEIT
AMSTERDAM



NOVA
UNIVERSIDADE NOVA
DE LISBOA



Prospective
Labs

Transport
for London

Funding



Driving Urban
Transitions



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